EK 3041-U

RF Wireless Systems | 3000 Series Miniature Receivers

Cat. No. 004435

General Description

The EK 3041-U is a miniature true diversity radiomicrophone receiver designed for use with digital ENG camcorders. It can be inserted into the slot-in facility of the Philips LDK 120, Ikegami, Panasonic or Sony SX camcorders without any additional connecting cables being required. 32 switchable UHF receiving frequencies ensure flexible operation.

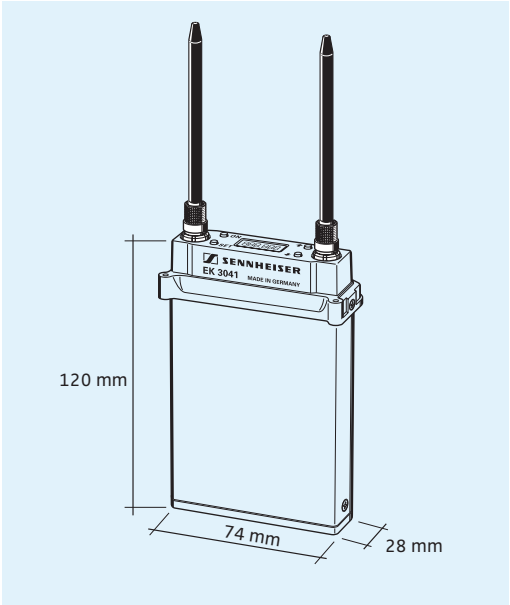
Technical Data

Receiving frequencies	max. 32, switchable
Frequency range	450–960 MHz
Switching bandwidth	24 MHz
Modulation	wideband FM
Nominal/peak deviation	± 40 kHz / ± 56 kHz
Sensitivity	< 2 µV
Noise reduction system	HiDyn *plus*™
AF frequency response	50–20,000 Hz
AF output	max. +9 dBu, balanced
Max. signal-to-noise ratio	114 dB(A)
THD	< 0.5 %
Connection	via adaptor
Power supply	10.5–18 V DC/32 mA,
(via camcorder or GA 3041-B)	1.8–4.5 V DC/150 mA
	5–9 V DC/70 mA
Dimensions	approx. 120 x 74 x 28 mm
Weight	approx. 200 g
In compliance with	ETS 300 422

Features

- True diversity "slot-in" receiver in a miniature format
- Suitable for a wide variety of applications
- Weather-proof and rugged all-metal housing
- 32 switchable UHF receiving frequencies, PLL-controlled
- Power supply via camcorder or battery adaptor
- Indication of transmitter battery status
- Excellent operational reliability
- Delivery includes: 1 EK 3041-U, 2 antennas

EK 3041-U dimensions



Accessories

GA 3041-15, 15-pin sub-D adaptor for Sony SX	Cat. No. 004639
GA 3041-25, 25-pin sub-D adaptor for Ikegami or Panasonic	Cat. No. 004640
GA 3041-44, 44-pin sub-D adaptor for Philips LDK 120	Cat. No. 004641
GA 3041-C slot-in housing (4-pin Hirose and 3-pin XLR)	Cat. No. 004642
GA 3041-B battery adaptor	Cat. No. 004643
B 50-1 battery box for 2 AA size batteries	Cat. No. 005269
B 250-1 battery box for 3 AA size batteries	Cat. No. 005271
BA 50-1 accupack with 2 NiMH cells	Cat. No. 005270
BA 250-1 accupack with 3 NiMH cells	Cat. No. 005272
QP 3041 Quadpack mini rack	Cat. No. 005105
DC supply cable (20 cm) with Hirose connectors	Cat. No. 075584

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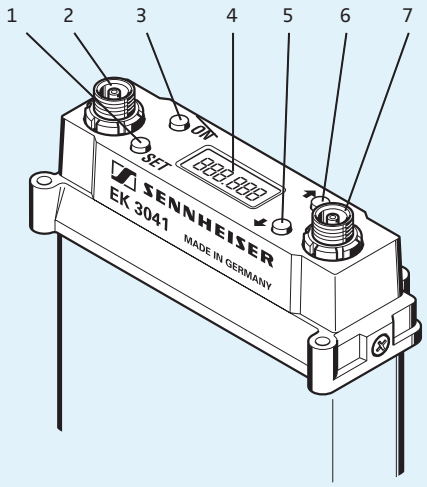
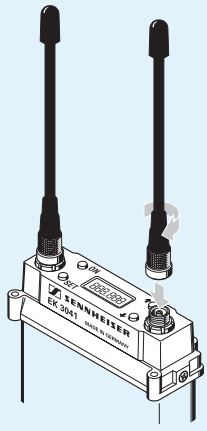
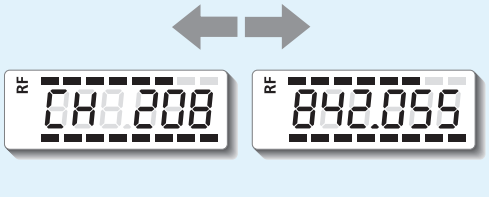


1 SET button for menu selection and storage
2 Antenna socket for diversity section A
3 ON button (on/off switch)
4 Multi-function LC display
5 A button for selecting a menu item
6 B button for selecting a menu item
7 Antenna socket for diversity section B

Operating controls of the EK 3041-U



Attaching the diversity antennas



Example of a standard indication on the LC display: receiving frequency or channel number, RF level and AF level

The EK 3041-U is a miniature true diversity "slot-in" receiver designed for broadcasting applications, especially for use with digital ENG camcorders. Up to 32 switchable receiving frequencies within a switching bandwidth of max. 24 MHz ensure highest flexibility. The frequency window can be chosen freely within the UHF range (450 to 950 MHz), so that the EK 3041-U can be used legally worldwide. It is suitable for multi-channel applications and fully compatible with any UHF transmitter from the 3000 or 5000 series.

To enable the EK 3041-U to be used with a wide variety of cameras, Sennheiser offers various adaptor and powering accessories. They include receiver adaptors for direct insertion into the camcorder's slot-in facility, a special housing for external attachment to the camera and a battery adaptor for stand-alone operation:

- If the EK 3041-U is to be used with the Sony, Ikegami, Panasonic or Philips camcorders, simply provide the receiver with a GA 3041-15, GA 3041-25 or GA 3041-44 adaptor, respectively, then insert it into the camera's integrated receiver slot. No additional audio or power cables are required. The receiver is powered by the rechargeable battery of the camcorder. The GA 3041-C housing is used for externally attaching the EK 3041-U to cameras without a slot-in facility. The slot-in housing is fixed to the camcorder by means of self-adhesive Velcro tape. The housing bottom is provided with an XLR-3 audio line output and a 4-pole Hirose socket for external DC power supply.
- If it is not possible to power the receiver by the camera battery, the GA 3041-B battery adaptor can be used. Simply slide it over the GA 3041-C housing, connect it and insert a B 50-1 / B 250-1 battery box or a BA 50-1 / BA 250-1 accupack.

With the GA 3041-C special housing and the GA 3041-B battery adaptor, the EK 3041-U is also ready for use as a convenient beltpack receiver. In addition to flexibility, reliable reception and universal use, the EK 3041-U offers straightforward, menu-assisted operation. Via the menu, you can adjust the RF squelch threshold, select a receiving frequency and assign it a channel number, activate or deactivate the lock mode function (which avoids accidental switching off), adjust the volume of the headphone output and switch the limiter on and off. The two latter options have been integrated in view of a modular expansion of the system.

The multi-function LC display of the EK 3041-U indicates the chosen receiving frequency or channel number and two bargraphs. The upper bargraph shows the RF level, while the AF level is indicated by the lower bar. If the EK 3041-U is used with a Sennheiser RF transmitter which transmits its battery status, the battery capacity can be monitored on the display, too: when the capacity will only last for about 20 to 30 minutes, a "bat.tr" warning will start flashing.